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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/053,408	01/23/2002		Ronald Peter van Heek	10326-72US KPM:ER	4342
20988	7590	03/23/2004		EXAMINER	
OGILVY I			ALVO, MARC S		
1981 MCGILL COLLEGE AVENUE SUITE 1600				ART UNIT	PAPER NUMBER
MONTREAL, QC H3A2Y3				1731	
CANADA					

DATE MAILED: 03/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summan	10/053,408	VAN HEEK ET AL.					
Office Action Summary	Examiner	Art Unit					
	Steve Alvo	1731					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on	_•						
2a)☐ This action is FINAL . 2b)☒ This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
 4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) 6-10 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 and 11-15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Application Papers							
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:						

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-5 and 11-14, drawn to a method of oxidizing a white liquor, classified in class 162, subclass 30.11.
- II. Claims 6-10, drawn to method of increasing pulp yield, classified in class 162, subclass 82.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions The process of Group I does not require increasing the yield of Kraft pulping or delignifying pulp as required by Group II; and the process of Group II does not require exposing an oxidized white liquor or having a second concentration greater than a first ratio as required by Group I.

During a telephone conversation with Mr. Kevin Murphy on March 17, 2004 a provisional election was made with traverse to prosecute the invention of Group I, claims 1-5 and 11-14. Affirmation of this election must be made by applicant in replying to this Office action. Claims 6-10 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the

application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-5 and 11-14 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The specification does not enable one to measure PS_{UV}, PS_{GR} or PS_{VIS}. Applicant has not defined these terms, nor has Applicant indicated how they are obtained and measured.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 and 11-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over DORRIS et al (5,082,526) in view of TEDER ("Some Aspects of the Chemistry of Polysulfide Pulping) and KESTER et al (6,399,222) or HOLMQVIST et al (5,582,684) with or without Admitted Prior Art (Instant specification, page 13, lines 4-7).

DORRIS et al teaches a method of producing an oxidized white liquor containing polysulfide by oxidizing a white liquor with oxygen in the presence of lime mud (column 4, line 51), to produce oxidized white liquor at a first concentration, and then the temperature of the

oxidized white liquor is increased from 90 to 100 OC to complete the reaction (column 9, lines 24-25) and then stored. It would have been obvious to the routineer that this further reaction would increase the concentration of the polysulfide. TEDER teaches the importance of measuring and controlling the amount of polysulfide during polysulfide pulping and indicates that spectral analysis could be used to measure the polysulfide concentration. It would have been obvious to measure and/or control the polysulfide concentration in the pulping process of DORRIS et al to better control the pulping as taught by TEDER. KESTER et al or HOLMQVIST et al teach using UV spectral analysis to measure the sulfide concentration in pulping liquors. It would have been obvious to use the UV spectral analysis of KESTER et al or HOLMQVIST et al for the spectral analysis of TEDER to measure and control the polysulfide concentration in the pulping liquor of DORRIS et al and/or TEDER. The Admitted Prior Art teaches that the UV spectrometer operating at 286 nm is known in the art. It would have been obvious to use the known spectrometer of the Admitted Prior Art to measure and perform the spectral analysis of TEDER and./or KESTER et al or HOLMQVIST et al. See HOLMQVIST et al, column 3, lines 3—31 for using a wavelength of 100-300 nm.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steve Alvo whose telephone number is 571-272-1185. The examiner can normally be reached on 6:00 AM to 2:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9191 (toll-free).

Steve Alvo
Primary Examiner
Art Unit 1731

msa